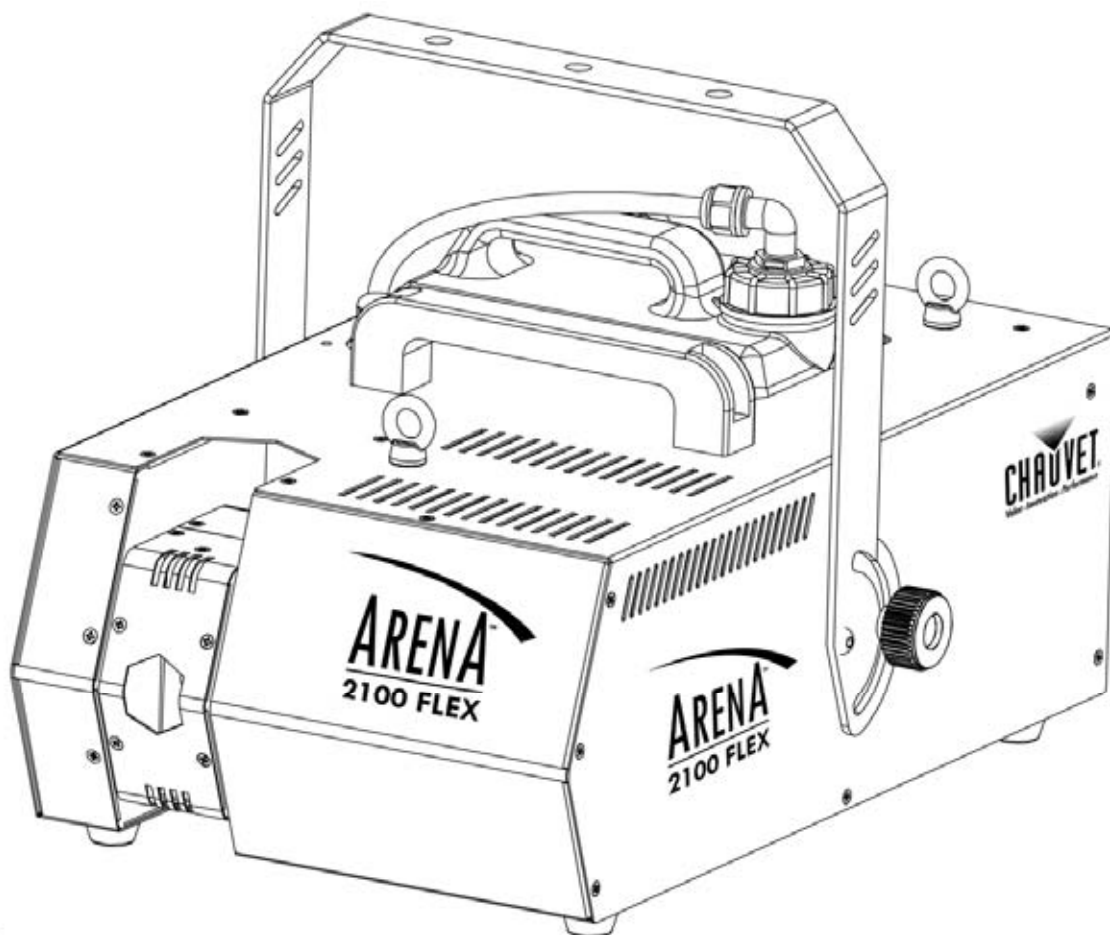


ARENA™

2100 FLEX

User Manual



CHAUVET®
Value • Innovation • Performance

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1. BEFORE YOU BEGIN

What Is Included

- 1 x Arena™ 2100 Flex
- 1 x Handheld Wireless Transmitter
- 1 x Power Cord
- 1 x Warranty Card
- 1 x Quick Reference Guide

Unpacking Instructions

Immediately upon receipt, carefully unpack this product and check the container to make sure you have received all the parts indicated above in good condition.

Claims




If the container or the material inside the container (this product and any other accessory included) appears damaged from shipping, or shows signs of mishandling, notify the carrier immediately, not CHAUVET®, upon receipt of the damaged merchandise. Failure to do so in a timely manner may invalidate your claim with the carrier. In addition, retain the container and all the packing material for inspection.

For other issues such as missing components or parts, damage not related to shipping, or concealed damage, file a claim with CHAUVET® within seven (7) days of receiving the merchandise.

Text Conventions

Convention	Meaning
1~512	A range of values
50/60	A set of values of which only one can be chosen
Settings	A menu option not to be modified
Menu > Settings	A sequence of menu options to be followed
<ENTER>	A key to be pressed on the product's control panel
ON	A value to be entered or selected

Icons

Icon	Meaning
	This paragraph contains critical installation, configuration, or operation information. Failure to comply with this information may render the product partially or completely inoperative, cause damage to the product, or cause harm to the user.
	This paragraph contains important installation or configuration information. Failure to comply with this information may prevent the product from functioning correctly.
	This paragraph reminds you of useful, although not critical, information.

Document Information

The information and specifications contained in this document are subject to change without notice. CHAUVET® assumes no responsibility or liability for any errors or omissions that may appear in this manual. CHAUVET® reserves the right to update the existing document or to create a new document to correct any errors or omissions.

You can download the latest version of this document from www.chauvetlighting.com.

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Author	Date	Editor	Date
A. Diaz	09/12/11	B. Pillow	09/13/11

Product at a Glance

Use on Dimmer	⊘	Auto Programs	⊘
Outdoor Use	⊘	Switchable voltage (120 V / 230 V)	✓
Sound Activated	⊘	Circuit breaker	✓
DMX	✓	User Serviceable	⊘
Master/Slave	✓	Duty Cycle	⊘

Safety Notes

Please read the following Safety Notes carefully before working with this product. They include important safety information about its installation, usage, and maintenance.



- Always connect this product to a grounded circuit to avoid the risk of electrocution.
- Always disconnect this product from the power source before cleaning it.
- Make sure the power cord is not crimped or damaged.
- Never disconnect this product from power cord by pulling or tugging on the cord.
- If mounting this product overhead, always secure it to a fastening device using a safety cable.
- Make sure there are no flammable materials close to the unit while operating.
- Do not touch this product's housing when operating because it may be very hot.
- Do not mount this product on a flammable surface (linoleum, carpet, wood, paper, carton, plastic, etc.)
- This product's nozzle is very hot during operation and it remains hot for a long time after operation has stopped.
- The fog exits the nozzle at a very high temperature. Keep a minimum distance of 6.5 ft (2 m) from the nozzle to the nearest object.
- Do not use this product as a space heater.
- Do not drink or come in contact with the fog fluid. If you do, call your local emergency service (911 in the US) for help.
- Do not add perfume, alcohol, gasoline, or any other flammables to the fog fluid.



- Always make sure that the voltage of the outlet to which you are connecting this product is within the range stated on the decal or rear panel of the product.
- This product is for indoor use only! (IP20) To prevent risk of fire or shock, do not expose this product to rain or moisture.
- Always install this product in a location with adequate ventilation, at least 20 in (50 cm) from adjacent surfaces.
- Be sure that no ventilation slots on the unit's housing are blocked.
- Never connect this product to a dimmer.
- Never carry this product from the power cord or any moving part. Always use the hanging/mounting bracket or the handles.
- The maximum ambient temperature (Ta) is 104° F (40° C). Do not operate this product at higher temperatures.
- In the event of a serious operating problem, stop using the unit immediately.
- Never try to repair this product. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center.
- Use only CHAUVET® water-based fog fluid.



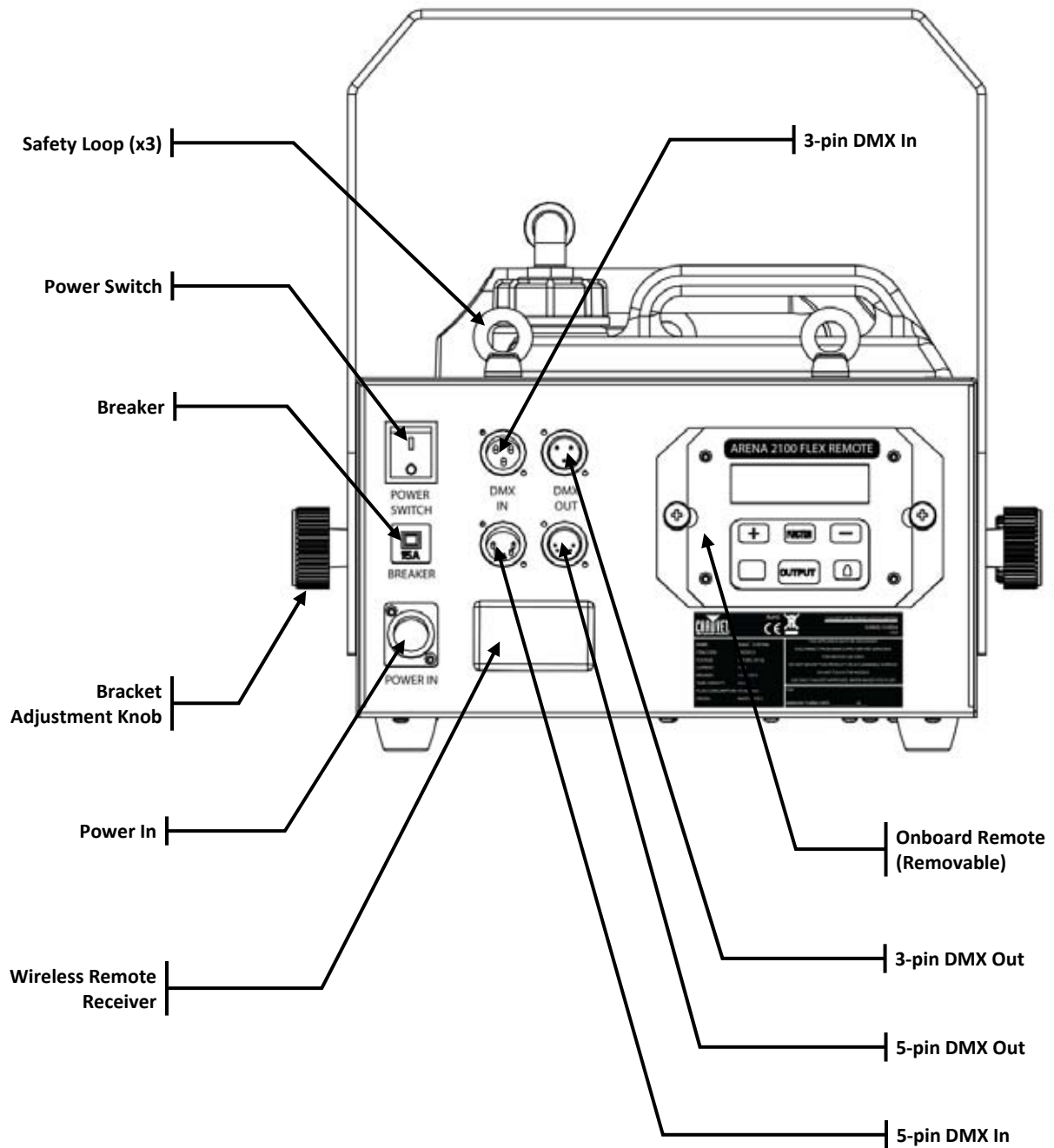
FCQ (Fog Cleaner Quart) was specifically developed by Chauvet to clean your Arena™ 2100 Flex. Make sure you use FCQ regularly to increase the life of your fogger.



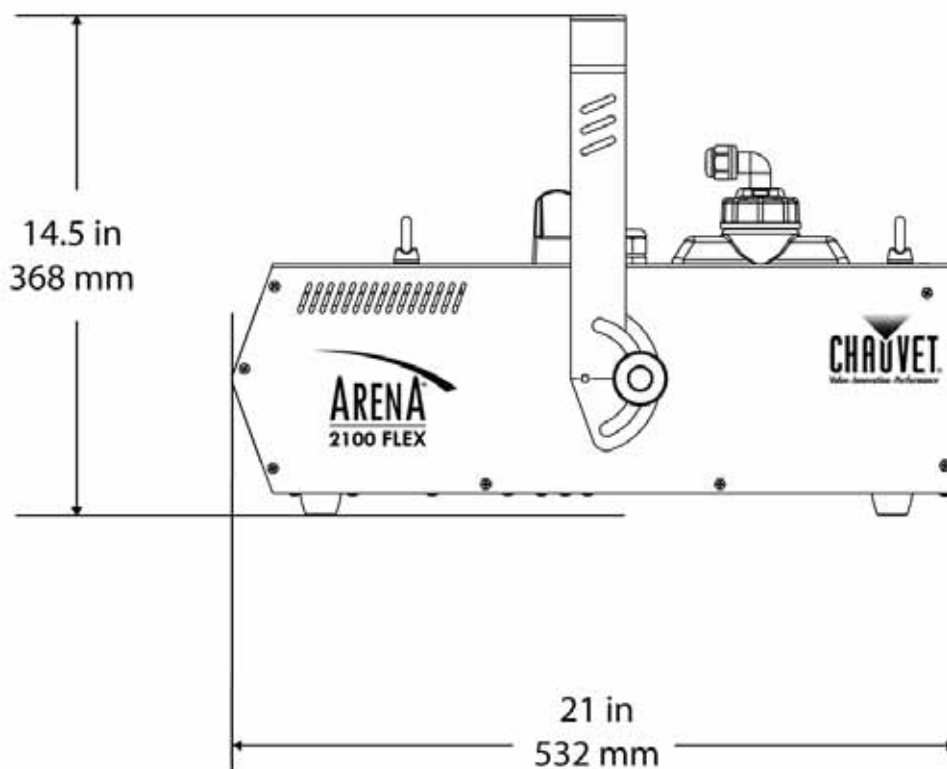
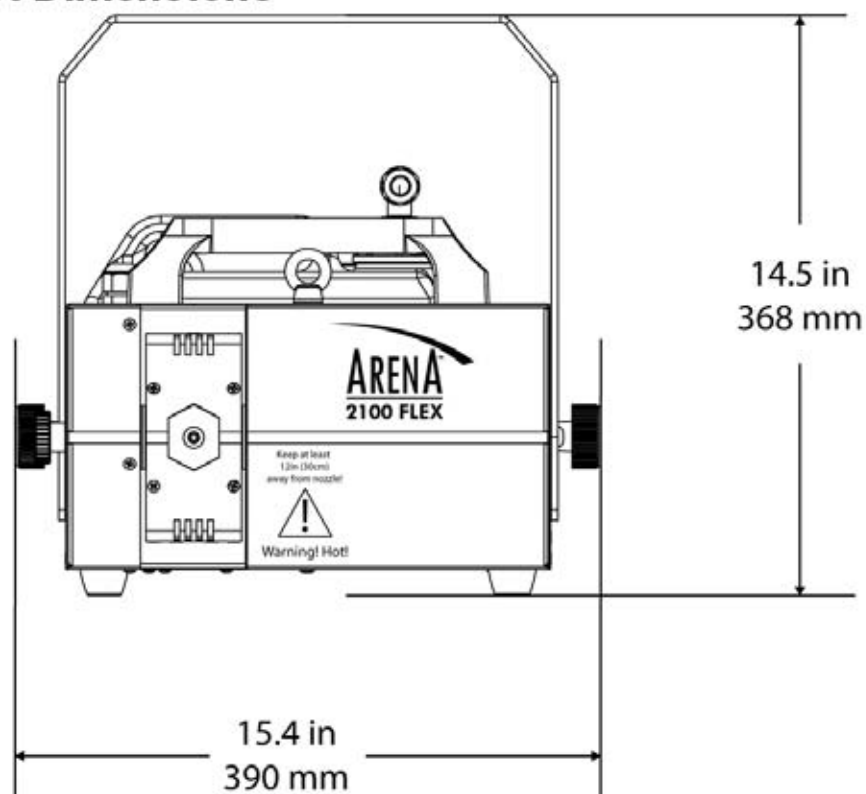
- Keep this User Manual for future consultation. If you sell this product to another user, be sure that they also receive this document.

2. INTRODUCTION

Product Overview



Product Dimensions



3. SETUP

AC Power

This product has a fixed voltage power supply and can work with an input voltage of either 120 V, 60 Hz or 230 V, 50 Hz, depending on the specific model.

To determine the power requirements for this product (circuit breaker, power outlet, and wiring), use the current value listed on the label affixed to the product's back panel, or refer to the product's specifications chart. The listed current rating indicates the product's average current draw under normal conditions.



Always connect this product to a protected circuit (circuit breaker or fuse), making sure that it has an appropriate electrical ground to avoid the risk of electrocution or fire.



Never connect this product to a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel serves only as a 0 to 100% switch.

Resetting the Breaker

This product uses a resettable circuit breaker. Follow the instructions below to reset.



Disconnect this product from the power outlet before resetting the breaker.

This product is equipped with a resettable circuit breaker on the power input circuit.

1. Remove the power cord from the power outlet.
2. Allow unit to cool for 15 minutes.
3. After 15 minutes, you may attempt to reset the breaker by pressing the button with your index finger until it latches in the operation position.
4. Plug the product's power cord into the power outlet and continue using as recommended.



If the breaker does not reset (the breaker button will not remain inserted), contact CHAUVET® immediately, as this indicates a possible internal malfunction.

Mounting

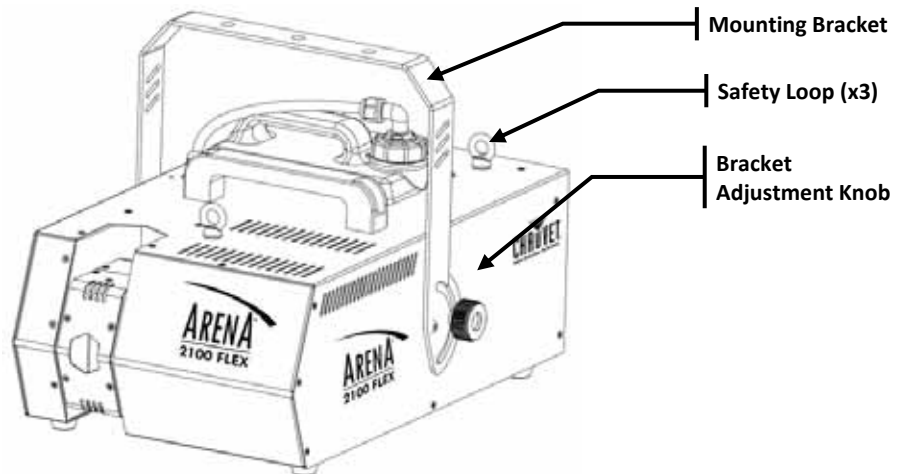
Before mounting this product, read and follow the safety recommendations indicated in the *Safety Notes* section (page 2 of this manual).

Orientation

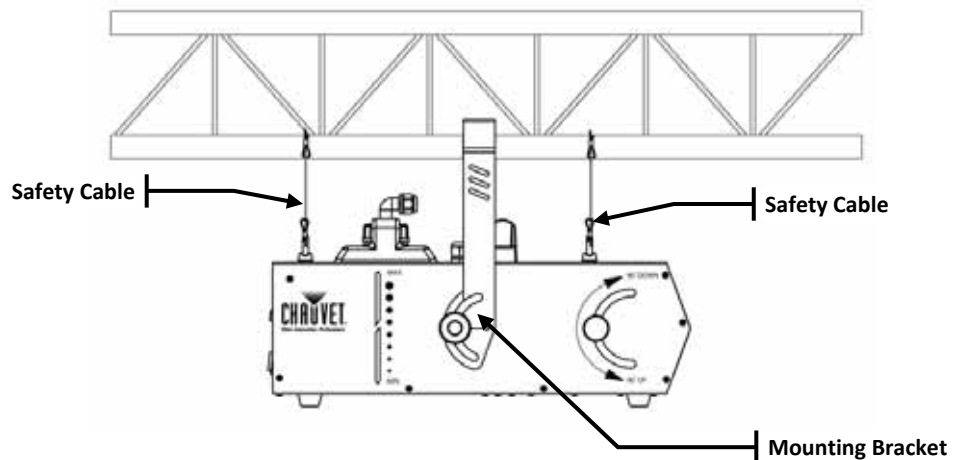
The Arena™ 2100 Flex may be mounted in any position; however, make sure adequate ventilation is provided around the product.

Rigging

- Before deciding on a location for this product, always make sure that it will be easy to access the unit for maintenance and programming/ fluid replenishment purposes.
- Make sure that the structure or surface onto which you are mounting this product can support its weight. Please see the *Technical Specifications* section of this manual for weight information.
- When mounting this product overhead, always use a safety cable. Mount the product securely to a rigging point, whether an elevated platform or a truss.
- When rigging this product onto a truss, you should use a mounting clamp of appropriate weight capacity. The bracket has a 13 mm hole, which is appropriate for this purpose.
- The bracket adjustment knobs allow for directional adjustment when aiming the product to the desired angle. Only loosen or tighten the bracket knobs manually. Using tools could damage the knobs.



Mounting Diagram



When mounting, use either a clamp attached to the truss and a safety cable, or use 3 safety cables attached to all 3 safety loops, located at the top of the product.

4. OPERATION

Control Panel Operation

To access the control panel functions, use the four buttons located underneath the display. Please refer to the Product Overview (page 5) to see the button locations on the control panel.

Button	Function
<FUNCTION>	Press to find an operation mode or to back out of the current menu option
<UP>	Press to scroll up the list of options or to find a higher value
<DOWN>	Press to scroll down the list of options or to find a lower value
<TIMER>	Turns on Timer Mode
<VOLUME>	Turns on Volume Mode
<MANUAL>	Controls fog output manually

Menu Map

Mode	Programming Steps		Description
<i>Interval Set</i>	1-200		Adjusts the fog output interval (in seconds)
<i>Duration Set</i>	1-200		Adjusts the fog output interval (in seconds)
<i>Timer Out</i>	1-100%		Adjusts the fog output volume of Timer Mode
<i>Volume Out</i>	1-100%		Adjusts the fog output volume of Volume Mode
<i>DMX 512 Add</i>	1-512		Sets the DMX address
<i>Wireless On</i>	On	Off	Turns the wireless function on or off

Configuration (DMX)

Set this product in DMX mode to control with a DMX controller.

1. Connect this product to a suitable power outlet.
2. Turn this product on.
3. Connect a DMX cable from the DMX output of the DMX controller to the DMX input socket of this product.

Starting Address

When selecting a starting DMX address, always consider the number of DMX channels the selected DMX mode uses. If you choose a starting address that is too high, you could restrict the access to some of the product's channels.

The Arena™ 2100 Flex uses one DMX channel in its 1-channel DMX mode, which defines the highest configurable address to **512**.

If you are not familiar with the DMX protocol, you may refer to the *DMX Primer* section in the *Technical Information* chapter.

To select the starting address, do the following:

1. Press **<FUNCTION>** repeatedly until **DMX 512 Add** shows on the display.
2. Use **<UP>** or **<DOWN>** to select the starting address.

Configuration (Standalone)

Set this product in one of the standalone modes to control without a DMX controller.

1. Connect this product to a suitable power outlet.
2. Turn this product on.



Never connect a product that is operating in any standalone mode, whether Static, Automatic, or Sound to a DMX string connected to a DMX controller. This is because products in standalone mode may transmit DMX signals that could interfere with the DMX signals from the controller.

Timer Mode

To enable the Timer mode, do the following:

1. Connect this product to a suitable power outlet
2. Turn this product on.
3. Press **<FUNCTION>** repeatedly until **Interval Set** shows on the display.
4. Use **<UP>** or **<DOWN>** to select the time in between haze.
5. Press **<FUNCTION>** repeatedly until **Duration Set** shows on the display.
6. Use **<UP>** or **<DOWN>** to select the duration of haze.
7. Press **<FUNCTION>** repeatedly until **Timer Out** shows on the display.
8. Use **<UP>** or **<DOWN>** to select the volume of haze.
9. Press **<TIMER>** to activate the mode with the above settings.

Volume Mode

To enable the Volume mode, do the following:

1. Connect this product to a suitable power outlet
2. Turn this product on.
3. Press **<FUNCTION>** repeatedly until **Volume Out** shows on the display.
4. Use **<UP>** or **<DOWN>** to select the volume of haze.
5. Press **<VOLUME>** to activate the mode with the above settings.

Master/Slave Mode

The Master/Slave mode allows a single Arena™ 2100 Flex unit (the “master”) to control the actions of one or more Arena™ 2100 Flex units (the “slaves”) without the need of a DMX controller. The master unit will be set to operate in Timer, Volume, or Manual mode, while the slave units will be set to operate in DMX Mode. Once set and connected, the slave units will operate in unison with the master unit.

Configure the units as indicated below.

Slave units:

1. Press **<FUNCTION>** repeatedly until **DMX 512 Add** shows on the display.
2. Set the DMX address to **001**.
3. Connect the DMX input of the first slave unit to the DMX output of the master unit.
4. Connect the DMX input of the subsequent slave units to the DMX output of the previous slave unit.
5. Finish setting and connecting all the slave units.

Master unit:

1. Set the master unit to operate in Timer, Volume, or Manual mode.
2. Make the master unit the first unit in the DMX daisy chain.



- **Configure all the slave units before connecting the master unit to the DMX daisy chain.**
- **Never connect a DMX controller to a DMX string configured for Master/Slave operation because the controller may interfere with the signals from the master unit.**
- **Do not connect more than 31 slave units to the master unit.**

Wireless Remote Operation

The Arena™ 2100 Flex comes with a handheld wireless transmitter for easy, board-free operation.

To use the remote, simply press and hold the button on the transmitter. The Arena™ 2100 Flex will emit fog. To stop the flow, let go of the button.

DMX Channel Assignments and Values

1-CH	Channel	Function	Value	Setting
	1	Fogger	000 ⇄ 255	0-100%

5. TECHNICAL INFORMATION

Fogger Maintenance

Do not allow the fog machine to become contaminated. After every 40 hours of continuous operation, CHAUVET® recommends running a cleaning solution composed of 80% distilled water and 20% distilled vinegar through the system to prevent the accumulation of particulate matter in the heating element.

The recommended cleaning procedure is as follows:

1. Empty all fog liquid from the machine.
2. Add cleaning solution to tank.
3. Plug unit in and allow it to warm up.
4. Run the unit in a well-ventilated area until the tank is almost empty. Do not allow the pump to run dry.
5. Cleaning is now complete. Refill with fog liquid. Run the machine briefly to clear any cleaning solution from the pump and heater.

Storage

Before storing this product, run distilled water (not tap water) through the system as described in the cleaning method above. This will help to avoid any particles condensing inside the pump or heater.

It is strongly recommended to test-run the machine on a monthly basis in order to achieve its best fogging condition.



FCQ (Fog Cleaner Quart) was specifically developed by Chauvet to clean your Arena™ 2100 Flex. Make sure you use FCQ regularly to increase the life of your fogger.

General Troubleshooting

Symptom	Possible Cause	Possible Action
Circuit breaker or fuse keeps blowing	<ul style="list-style-type: none"> Excessive load on the circuit 	<ul style="list-style-type: none"> Make sure that the total load does not exceed 80% of the breaker or fuse nominal current
	<ul style="list-style-type: none"> Short circuit along the power lines 	<ul style="list-style-type: none"> Check the power lines and power cords
Product does not power up	<ul style="list-style-type: none"> No energy on power outlet 	<ul style="list-style-type: none"> Check power outlet Change to another outlet
	<ul style="list-style-type: none"> Loose or damaged power cord 	<ul style="list-style-type: none"> Check the power cord
	<ul style="list-style-type: none"> Blown fuse 	<ul style="list-style-type: none"> Replace blown fuse with a good one of the same type and rating
	<ul style="list-style-type: none"> Internal problem 	<ul style="list-style-type: none"> Send product for repair
Product does not respond to DMX	<ul style="list-style-type: none"> Wrong starting address on the product 	<ul style="list-style-type: none"> Set the correct starting address on the product Use the right fader(s) on the controller
	<ul style="list-style-type: none"> Wrong DMX personality on the product 	<ul style="list-style-type: none"> Set the correct DMX product's personality Assign the faders accordingly
	<ul style="list-style-type: none"> Wrong polarity setting on the DMX controller 	<ul style="list-style-type: none"> Change the signal polarity on the controller
	<ul style="list-style-type: none"> Loose or damaged DMX cable 	<ul style="list-style-type: none"> Check the DMX cable before the faulty unit
	<ul style="list-style-type: none"> Internal problem 	<ul style="list-style-type: none"> Send product for repair
Intermittent DMX Problems	<ul style="list-style-type: none"> Signal cables are not DMX compatible 	<ul style="list-style-type: none"> Replace non DMX cables with true DMX cables
	<ul style="list-style-type: none"> Interference with AC or radio signals 	<ul style="list-style-type: none"> Keep DMX cables away from AC wires or radio equipment
	<ul style="list-style-type: none"> DMX cable too long 	<ul style="list-style-type: none"> Install an optically coupled DMX amplifier right before the product with intermittent problems
	<ul style="list-style-type: none"> Too many products connected 	<ul style="list-style-type: none"> Install an optically coupled DMX amplifier after unit #32
	<ul style="list-style-type: none"> Terminator not connected 	<ul style="list-style-type: none"> Install a terminator, as indicated in the <i>DMX Primer</i> section.



If you still experience problems after trying the above solutions, contact CHAUVET® Technical Support.

Contact Procedure

In case you need to return a product or request support, follow the procedure below:

- If you live in the US, contact CHAUVET® World Headquarters (see below).
- If you live in the UK or Ireland, contact CHAUVET® Europe Ltd. (see below).
- If you live in any other country, DO NOT contact CHAUVET®. Instead, contact your distributor of record. Refer to our Web site for contact details of distributors outside the US, United Kingdom, or Ireland.

CHAUVET® Contact Information

World Headquarters

CHAUVET®

General Information

Address: 5200 NW 108th Avenue
Sunrise, FL 33351
Voice: (954) 929-1115
Fax: (954) 929-5560
Toll free: (800) 762-1084

Technical Support

Voice: (954) 929-1115 (Press 4)
Fax: (954) 756-8015
Email: tech@chauvetlighting.com

World Wide Web

www.chauvetlighting.com

United Kingdom & Ireland

CHAUVET® Europe Ltd.

General Information

Address: Unit 1C
Brookhill Road Industrial Estate
Pinxton, Nottingham, UK
NG16 6NT
Voice: +44 (0)1773 511115
Fax: +44 (0)1773 511110

Technical Support

Email: uktech@chauvetlighting.com

World Wide Web

www.chauvetlighting.co.uk



If you live outside the US, United Kingdom, or Ireland, contact your distributor of record and follow their instructions on how to return CHAUVET® products to them. Visit our Web site for contact details.

Returning Products to CHAUVET®

Call the corresponding CHAUVET® Tech Support office and request a Return Merchandise Authorization (RMA) number before shipping the product. Be prepared to provide the model number, serial number, and a brief description of the cause for the return.

You must send the merchandise prepaid, in its original box, and with its original packing and accessories. CHAUVET® will not issue call tags.

Clearly label the package with the RMA number. CHAUVET® will refuse any product returned without an RMA number.



DO NOT write the RMA number directly on the box. Instead, write it on a properly affixed label.

Before sending the product, clearly write the following information on a piece of paper and place it inside the box:

- Your name
- Your address
- Your phone number
- The RMA number
- A brief description of the problem

Be sure to pack the product properly. Any shipping damage resulting from inadequate packaging will be your responsibility. As a suggestion, proper UPS packing or double-boxing is always a safe method to use.



CHAUVET® reserves the right to use its own discretion to repair or replace returned product(s).

DMX Primer

Introduction

The DMX protocol (USITT DMX512-A) is a networking protocol that enables a universal DMX controller device to control the features of multiple DMX compatible fixtures, whether PAR cans, wash lights, moving heads, followspots, foggers, or proprietary fixture controllers, etc.

As any other networking protocol, the USITT DMX512-A describes the physical medium, the signals, and the functions they control.

The Physical Medium

DMX compatible fixtures are connected to the DMX controller using a DMX connection. This connection consists of a series of wired connections between the DMX controller and the various DMX compatible fixtures, also known as a daisy chain connection. In this type of connection, the DATA OUT of one fixture or the DMX controller connects to the DATA IN of the next fixture, and so on.

Each DMX fixture links to the previous and next DMX fixture or controller using a DMX cable. This type of cable consists of a section of shielded, two-conductor twisted pair cable with one 3-pin or 5-pin XLR male connector on one end, and a 3-pin or 5-pin XLR female connector on the other end. The XLR connectors pin-out is as follows: pin 1 is the *Common* (shield), pin 2 is *Signal Negative* (S-), and pin 3 is *Signal Positive* (S+).

Note: For DMX, pins 4 and 5 are not used.

The Signals

The DMX signal stream is unidirectional from the DMX controller to the DMX compatible fixtures. These signals conform to the EIA-485 standard.

The stream of DMX signals consists of 512 individual, sequential channels that form a frame. The DMX controller constantly sends frames of DMX signals to the DMX connection, even if not all of the 512 channels are in use.

Because of this constant transmission method, there can be only one DMX controller in a DMX connection. If not, the DMX signals sent by one controller would interfere with the signals sent by the other controller(s).

DMX Universes

A DMX universe is the set of DMX compatible fixtures connected to the same DMX daisy chain using the same set of 512 DMX channels. Each set of 512 channels is referred to as a DMX Universe.

In most cases, an installation will consist of only one DMX universe. However, you might find it necessary to define two or more universes because of constraints imposed by distance or the number of features.

Most DMX controllers support only one universe, although some DMX controllers may support two or more universes. Each universe will have its own separated DMX daisy chain. A DMX compatible fixture can only be part of a single DMX universe.

The Functions

Each DMX channel can have any unitary value in the 000~255 range. Each DMX compatible fixture uses as many consecutive DMX channels as features the user can control. The sequential numbers assigned to each DMX channel (1~512) are also known as DMX addresses.

The function each DMX channel has, and the results of assigning a value to each depend on the personality (or DMX channel layout) of each controlled fixture. Some fixtures only use a single DMX channel, while others may require 15 or more DMX channels to control all their functions. Personalities are discussed in the next section, *DMX Configuration*.

DMX Configuration

The DMX fixture configuration consists in determining how many channels each fixture will need as well as assigning the corresponding DMX channels to each fixture in order to size correctly the DMX controller.

Personalities

A DMX personality describes what channel or channels control which fixture parameters. A DMX fixture may have many personalities to choose from. Each personality requires a different number of channels, based on the number of features the fixture enables. The number of DMX channels used by a fixture may vary from only one (usually the general dimmer control) to 15 or more.

When a job does not require using all the fixture's capabilities, the user can select a more basic personality (less channels), allowing the DMX controller to accommodate more DMX fixtures.

Starting Address

For the DMX controller to control each DMX fixture, the user must first configure each fixture's personality to determine the number of channels required to control the fixture. Each channel will have a DMX address assigned to it.

However, since assigning a particular DMX address to each channel is impractical, the user will only need to configure the DMX address on each fixture that corresponds to the fixture's first channel of control. This is the fixture's starting address. The fixture will automatically assign the other channels to the subsequent DMX addresses.

Once this assignment is complete, and based on the number of channels used, the fixture will respond to the DMX signals sent to the range of DMX channels that begins with the starting address.

For example, a fixture that uses six DMX channels with a starting address of 100, will accept DMX data sent by the DMX controller to channels 100, 101, 102, 103, 104, and 105.

Assigning Addresses

The user must carefully assign the starting addresses for each individual fixture to avoid DMX channel overlapping. If the DMX channels do overlap, the impacted fixtures could operate erratically.

However, the user may decide to configure two or more similar fixtures with the same personality and starting address. In this case, all the fixtures with the same starting address will operate in unison.

DMX Connectivity

Connecting the DMX fixtures to a DMX controller in small to medium installations is usually a rather simple operation that requires a minimum of tools and some planning (not including the actual fixture rigging and configuration).

However, in large installations it may be necessary to plan carefully the position and cabling of each fixture to avoid unexpected problems.

Fixture Location

The order in which the fixtures connect to the DMX controller is not important and has no effect on how a controller communicates to each fixture. However, the user should always define a physical location for the fixtures that provides for the easiest and most direct cabling to the controller and other fixtures.

(DMX Connectivity cont.)

Number of Fixtures

When using a DMX controller, the combined number of channels required by all the fixtures on the DMX daisy chain determines the number of fixtures the DMX controller has to support. Conversely, the number of onboard sliders, page buttons, and fixture buttons limits the number of discrete DMX channels a DMX controller can support.



To comply with the EIA-485 standard, which is the base for the USITT DMX512-A protocol, do not connect more than 32 fixtures without using an optically-isolated DMX splitter. Doing otherwise may result in deterioration of the digital DMX signal.

DMX Data Cabling

You must use DMX compliant data cables to link two or more DMX compatible fixtures. You may purchase CHAUVET® certified DMX cables directly from a dealer/distributor or construct your own cable.



USITT recommends limiting the total length of the DMX cable (from the first fixture/controller to the last fixture) to 300~455 m (985~1,500 ft).

Making Your Own DMX Cable

If you choose to create your own DMX cable, make sure to use data-grade cables that can carry a high frequency signal and are less prone to electromagnetic interference. Use a Belden® 9841 or equivalent cable, which meets the specifications for EIA RS-485 applications. For certain applications, Cat5, Cat5e, or Cat6 may be appropriate.



Do not use standard microphone cables for DMX applications because they cannot transmit DMX data reliably over long distances.

DMX Cable Characteristics

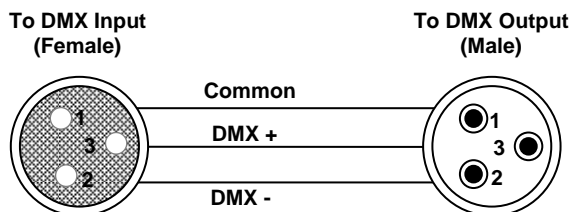
The DMX data cable must have the following characteristics:

Type:	shielded, 2-conductor twisted pair
Maximum capacitance between conductors:	30 pF/ft
Maximum capacitance between conductor and shield:	55 pF/ft
Maximum resistance:	20 ohms/1000 ft
Nominal impedance:	100~140 ohms

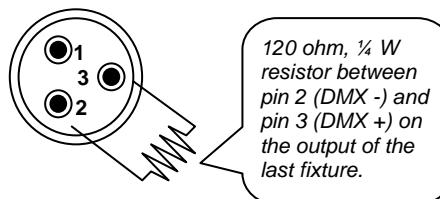
DMX Cable Connectors

Each DMX cable must have a male (3-pin or 5-pin XLR connector) on one end and a female (3-pin or 5-pin XLR connector) on the other end.

DMX Connector Configuration



To avoid signal transmission problems and interference, connect a DMX signal terminator to the last fixture in the DMX daisy chain, as shown.





Test all DMX cables with an ohmmeter to verify their correct polarity and to make sure that there are no short-circuits between any of the pins, or between any pin and ground.

If the common wire (shield) touches the chassis ground, a ground loop could form, which may cause the fixture to perform erratically.

3-Pin to 5-Pin Conversion Chart

If you use a DMX controller or fixture with a 5-pin DMX connector, you will need to use a 5-pin to 3-pin adapter. The chart below details a proper cable conversion.

3-Pin to 5-Pin Conversion Chart

Conductor	3-Pin Female (Output)	5-Pin Male (Input)
Ground/Shield	Pin 1	Pin 1
Negative (-) signal	Pin 2	Pin 2
Positive (+) signal	Pin 3	Pin 3
Not Used		Pin 4
Not Used		Pin 5

DMX Connection

Make sure that the fixtures with which you are working can operate in DMX mode, not in a proprietary connection mode. Refer to the fixtures' manual to learn how to enable their respective DMX modes.

The procedure below illustrates a possible DMX connection method.

1. Connect the 3-pin, male connector of the first DMX cable to the DMX Output connector (3-pin, female) of the DMX controller.
2. Connect the 3-pin, female connector of the first DMX cable coming from the controller to the DMX Input connector (3-pin, male) of the first DMX fixture.
3. Connect the 3-pin, male connector of the second DMX cable to the DMX Output connector (3-pin, female) of the first DMX fixture.
4. Connect the 3-pin, female connector of the second DMX cable coming from the first DMX fixture to the DMX Input connector of the second DMX compatible fixture.
5. Continue linking the other DMX fixtures in the same way.

6. TECHNICAL SPECIFICATIONS

Dimensions and Weight	Length	Width	Height	Weight
	21 in (542 mm)	15.4 in (390 mm)	14.5 in (368 mm)	35 lbs (15.8 kg)
Note: Dimensions in inches rounded to the nearest decimal digit.				
Power	Power Supply Type	Range		Voltage Selection
	Magnetic (internal)	120 V, 60 Hz or 230 V, 50 Hz		Fixed voltage
	Parameter	120 V, 60 Hz		230 V, 50 Hz
	Consumption	1460 W		1460 W
	Operating	12.2 A		6.3 A
	Breaker	15 A		15 A
	Power I/O	US/Worldwide		
	Power input connector	Neutrik® powerCON® A		
	Power Cord plug	Edison (US)		
	Operation/ Consumption/ Capacity	Heat-up Time	Tank Capacity	Fluid Consumption
8 min		1.3 gal (5 l)	100 ml/min	
Misc.		Output	Remote Length	Tilt
	30,000 cfm	14.7 ft (4.5 m)	180°	
Thermal	Maximum External Temp.	Cooling System		
	104° F (40° C)	Convection		
DMX	I/O Connectors	Connector Type	Channel Range	
	3- and 5-pin XLR	Sockets	1	
Ordering	Product Name	Item Code	Item Number	
	Arena™ 2100 Flex	05070312 (120 V version)	ARENA2100FLEX	
	Arena™ 2100 Flex – 220 V	05070322 (220 V version)	220VARENA2100FLEX	